



AMT
The Association For
Manufacturing Technology

Founded 1902 as National Machine Tool Builders' Association

Direct Dial: (703) 827-5260

STATISTICAL

No. 10-92 January 29, 1992

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – NOVEMBER 1991 (Values in Millions of U.S. Dollars)

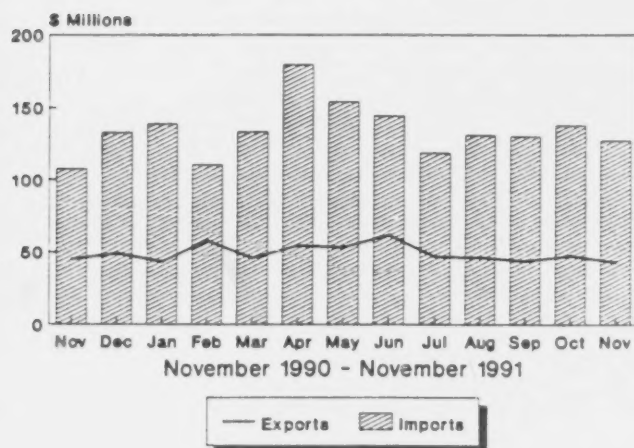
	Nov. 1991	Oct. 1991	Average Aug-Oct.	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	\$ 43.1	\$ 47.5	\$ 45.8	\$ 543.7	\$ 550.7	(1.3%)
Imports	\$126.7	\$137.4	\$132.5	\$1,501.6	\$1,634.2	(8.1%)
Balance	(\$ 83.6)	(\$ 89.9)	(\$ 86.7)	(\$ 957.9)	(\$1,083.5)	(11.6%)
METAL FORMING MACHINE TOOLS						
Exports	\$ 34.8	\$ 38.7	\$ 39.1	\$ 430.9	\$ 419.5	2.7%
Imports	\$ 26.0	\$ 34.8	\$ 32.7	\$ 450.2	\$ 482.8	(6.8%)
Balance	\$ 8.8	\$ 3.9	\$ 6.4	(\$ 19.3)	(\$ 63.3)	(69.5%)
MACHINE TOOL TOTAL						
Exports	\$ 78.0	\$ 86.1	\$ 84.9	\$ 974.5	\$ 970.2	0.4%
Imports	\$152.7	\$172.1	\$165.2	\$1,951.9	\$2,117.0	(7.8%)
Balance	(\$ 74.7)	(\$ 86.0)	(\$ 80.3)	(\$ 977.4)	(\$1,146.8)	(14.8%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	\$ 21.9	\$ 18.4	\$ 19.7	\$ 276.7	\$ 315.0	(12.2%)
Imports	\$ 92.2	\$102.1	\$ 96.9	\$1,089.0	\$1,115.2	(2.3%)
Balance	(\$ 70.3)	(\$ 83.7)	(\$ 77.2)	(\$ 812.3)	(\$ 800.2)	1.5%
OTHER MANUFACTURING TECHNOLOGY						
Exports	\$145.0	\$159.7	\$140.3	\$1,549.8	\$1,671.0	(7.3%)
Imports	\$144.5	\$154.5	\$150.4	\$1,798.2	\$1,784.5	0.8%
Balance	\$ 0.5	\$ 5.2	(\$ 10.1)	(\$ 248.4)	(\$ 113.5)	118.9%

Note: Numerically controlled machine tools is a subgroup of the machine tool total. () denotes negative. Individual items may not add up to totals due to rounding.

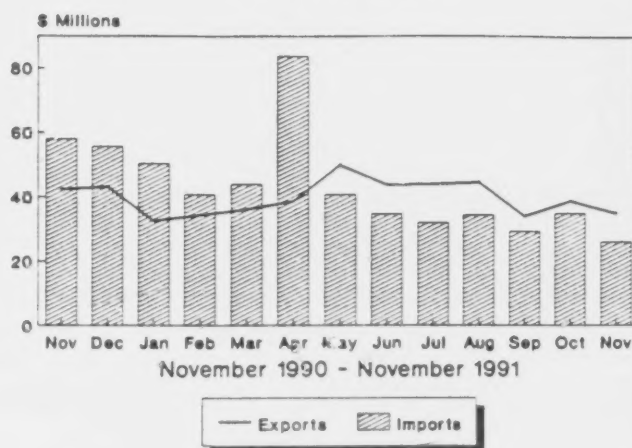
- U.S. machine tool exports in November fell 9% from October to \$78.0 million, the third lowest total of the year. Year-to-date exports of \$974.5 million are up a fraction over last year.
- Imports in November of \$152.7 million, down 11% from October, were also the third lowest monthly total of the year. Year-to-date imports of \$2.0 billion are down 8% from 1990.
- In November, metal forming exports exceeded imports for the seventh straight month. The trade deficit in metal forming machines in 1991 through November is down 70% from last year to \$19.3 million.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING

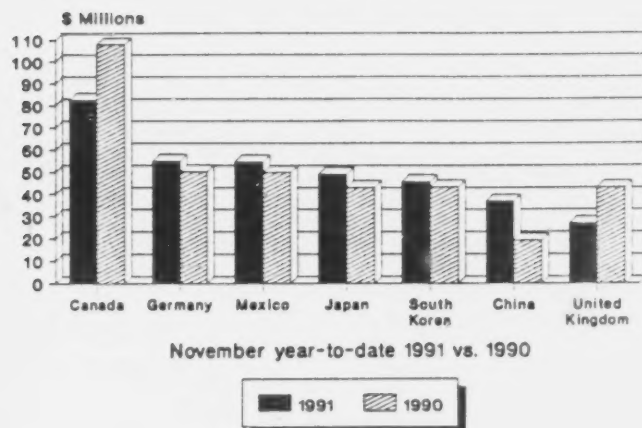


METAL CUTTING MACHINE TOOLS

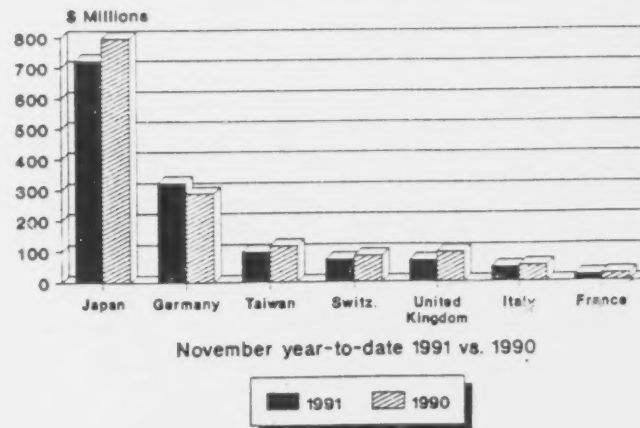
Exports

- Metal cutting machine tool exports in November totalled \$43.1 million, the lowest monthly total in two years. Year-to-date exports are down 1% from last year at \$543.7 million.
- Canada remains by far the top metal cutting export market so far this year at \$82.6 million, down 23% from last year. Year-to-date exports are also down for the United Kingdom (\$27.0 million, down 37%), Italy (\$13.1 million, down 23%), India (\$12.3 million, down 37%) and Brazil (\$11.0 million, down 30%).
- In 1991 through November, exports of drilling machines are up 25% to \$21.4 million; exports of station type machines are up 15% to \$47.8 million. Exports of machining centers are down 9% to \$48.5 million.

LEADING U.S. EXPORT MARKETS METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES METAL CUTTING MACHINES



Imports

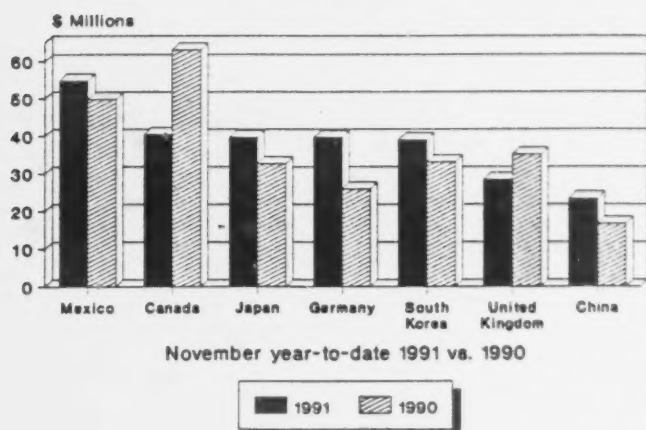
- Imports of metal cutting machines in 1991 through November are \$1.5 billion, down 8% from 1990. Imports in November (\$126.7 million) were down 8% from October.
- Year-to-date imports from Japan are down 9% to \$722.7 million; Japan accounts for 48% of total U.S. metal cutting imports so far this year. Imports from Germany (\$321.8 million, up 12%) account for 21% of total metal cutting imports.
- Imports of NC horizontal lathes in 1991 through November are down 16% to \$233.4 million; imports of machining centers are up 2% to \$377.7 million. Together, these two categories account for 41% of U.S. metal cutting imports so far in 1991.

METAL FORMING MACHINE TOOLS

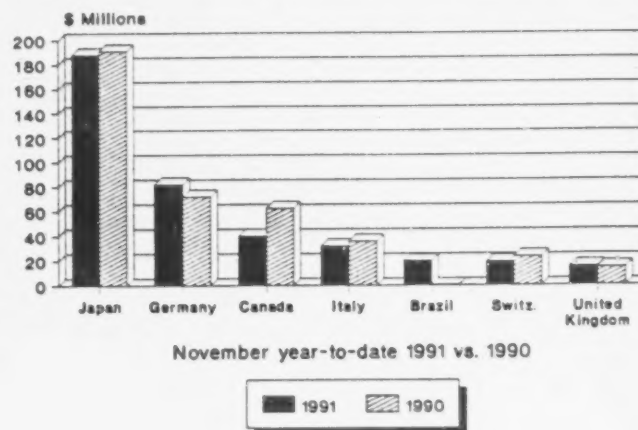
Exports

- Exports of metal forming machines fell 10% in November to \$34.8 million. Year-to-date exports of \$430.9 million are up 3% over last year.
- Exports of presses are \$78.6 million in 1991 through November, down 13% from 1990. Year-to-date exports of bending & forming machines (\$62.9 million) are down 4% from 1990.
- In November, for the second straight month, South Korea was the top U.S. metal forming export market at \$7.1 million. Year-to-date exports to South Korea are now \$39.0 million, up 18% over 1990. The top year-to-date export market is Mexico at \$54.7 million, up 10% from last year, followed by Canada (\$40.4 million) and Japan (\$39.6 million).

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- U.S. imports of metal forming machines plunged in November to \$26.0 million, the lowest monthly total since October 1985.
- Imports of presses in 1991 through November are up 25% to \$131.6 million; imports for all other major categories of metal forming machines are down.
- Japan is the top supplier of metal forming machines in 1991 through November at \$188.2 million, equal to 42% of total U.S. metal forming imports. Germany follows at \$82.2 million, equal to 18% of the total.

OTHER MANUFACTURING TECHNOLOGY

Exports

• Year-to-date exports of injection molding machines are \$72.4 million; exports of extruders are \$50.6 million. The comparable figures for 1990: \$65.9 million and \$55.0 million, respectively. Year-to-date exports of numerical controls for controlling machine tools are \$20.9 million, compared to \$27.2 million in 1990.

• Exports of machine tool parts and accessories are \$619.0 million in 1991 through November. The top markets in November: Canada (\$9.9 million), Japan (\$8.5 million), Germany (\$7.8 million), and the United Kingdom (\$6.0 million).

Imports

• Year-to-date imports of machine tool parts and accessories are \$509.2 million, down from \$513.3 million in 1990 at this time. Year-to-date imports of numerical controls for controlling machine tools are \$30.7 million, down from \$42.7 million in 1990 at this time.

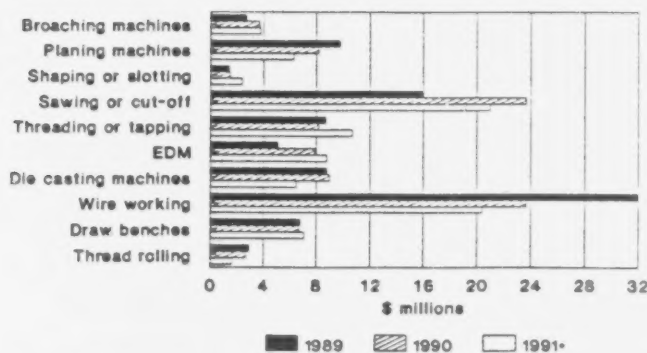
• Imports of industrial robots in November were \$9.6 million, for a year-to-date total of \$158.0 million. The 1991 total is 48% higher than the comparable figure for 1990.

MONTHLY FOCUS

The "major" categories of machine tools are machines such as lathes, grinding machines, drilling machines, milling machines and machining centers. However, other types of machine tools account for significant portions of U.S. machine tool imports and exports. In 1991 through November, for example, imports of electrical discharge machines (\$73.5 million) and wire working machines (\$49.8 million) exceed imports of drilling machines, gear cutting machines, and NC vertical lathes.

The chart below details U.S. exports of some of the less "well-known" types of machine tools since 1989. Exports of shaping or slotting machines are on an upward trend, as are exports of EDMs and threading or tapping machines. Exports of wire working machines were \$31.9 million in 1989, but are \$20.4 million in 1991 through November.

U.S. Machine Tool Exports
Select Machine Categories
1989-1991*



* January-November 1991 only
Source: U.S. Bureau of the Census

1991 EXPORTS

METAL CUTTING

COUNTRY	NOVEMBER	OCTOBER	% CHANGE	NOV' 91 YTD	NOV' 90 YTD	% CHANGE
Canada	\$6,042,193	\$7,374,646	-18.1%	\$82,642,854	\$107,913,036	-23.4%
Germany	4,644,713	6,500,267	-28.5%	55,003,006	50,247,307	9.5%
Mexico	6,673,850	5,308,815	25.7%	54,734,228	49,776,840	10.0%
Japan	2,150,354	2,755,083	-21.9%	49,156,497	43,056,736	14.2%
South Korea	1,933,290	5,261,686	-63.3%	45,671,370	43,225,546	5.7%
China	5,643,634	6,268,292	-10.0%	36,833,399	19,191,698	91.9%
United Kingdom	1,676,553	1,581,106	6.0%	26,950,361	43,109,718	-37.5%
USSR	1,399,316	0	NA	19,325,562	7,861,503	145.8%
France	170,031	4,334,081	-96.1%	16,561,683	8,467,086	95.6%
Italy	2,697,875	87,599	2979.8%	13,081,854	17,089,561	-23.5%
India	984,421	579,498	69.9%	12,324,466	19,607,316	-37.1%
Brazil	596,559	285,530	108.9%	10,992,890	15,600,115	-29.5%
Venezuela	868,455	819,495	6.0%	10,229,460	6,849,596	49.3%
Taiwan	297,583	452,973	-34.3%	10,100,044	10,914,524	-7.5%
Belgium	298,900	424,219	-29.5%	10,072,409	18,599,198	-45.8%
Singapore	470,527	628,420	-25.1%	7,826,981	8,139,013	-3.8%
Switzerland	643,990	232,342	177.2%	5,134,956	5,254,743	-2.3%
Indonesia	32,047	46,635	-31.3%	4,777,098	345,299	1283.5%
Spain	2,158,026	874,765	146.7%	4,293,381	5,712,682	-24.8%
Netherlands	32,989	145,883	-77.4%	4,278,771	5,979,357	-28.4%
Australia	74,546	608,723	-87.8%	4,061,549	15,126,996	-73.2%
Malaysia	57,013	16,247	250.9%	2,989,080	2,333,194	28.1%
Thailand	35,240	68,394	-48.5%	2,209,415	2,173,070	1.7%
Austria	28,245	26,000	8.6%	811,747	262,817	208.9%

METAL FORMING

COUNTRY	NOVEMBER	OCTOBER	% CHANGE	NOV' 91 YTD	NOV' 90 YTD	% CHANGE
Mexico	\$5,149,959	\$5,149,768	-1.0%	\$54,738,813	\$49,773,267	10.0%
Canada	3,613,634	2,337,110	54.6%	40,390,451	63,117,830	-36.0%
Japan	2,725,207	6,626,124	-58.9%	39,630,398	32,612,630	21.5%
Germany	2,724,441	3,382,871	-19.5%	39,611,183	25,907,698	52.9%
South Korea	7,100,511	8,460,070	-16.1%	38,976,836	33,025,124	18.0%
United Kingdom	552,777	1,585,330	-65.1%	28,352,716	35,159,161	-19.4%
China	1,398,865	978,364	43.0%	23,327,934	16,674,090	39.9%
France	394,473	1,279,474	-69.2%	21,908,478	18,293,258	19.8%
Italy	168,876	233,938	-27.8%	10,029,932	8,233,689	21.8%
Thailand	1,392,359	951,456	46.3%	9,720,030	4,286,902	126.7%
Australia	100,818	315,232	-68.0%	9,585,874	6,178,188	55.2%
Taiwan	856,611	741,886	15.5%	9,237,729	16,851,701	-45.2%
Netherlands	262,691	87,454	200.4%	9,122,029	8,815,926	3.5%
Brazil	32,662	2,213,598	-98.5%	7,881,895	9,233,701	-14.6%
Singapore	91,885	286,364	-67.9%	5,986,899	5,555,218	7.8%
Indonesia	460,499	959,845	-52.0%	5,443,833	6,740,737	-19.2%
Belgium	2,135,588	137,393	1454.4%	5,170,974	2,599,393	98.9%
Spain	8,648	394,045	-97.8%	4,744,521	5,561,011	-14.7%
Venezuela	739,011	200,929	267.8%	2,958,233	2,010,906	47.1%
Switzerland	182,805	286,447	-36.2%	2,690,087	2,111,059	27.4%
Malaysia	17,855	179,583	-90.1%	1,423,666	4,497,737	-68.3%
India	69,360	79,796	-13.1%	1,071,158	6,567,583	-83.7%
Austria	2,782	49,800	-94.4%	431,350	2,427,976	-82.2%
USSR	58,182	0	NA	181,066	732,665	-75.3%

MACHINE TOOL TOTAL

COUNTRY	NOVEMBER	OCTOBER	% CHANGE	NOV' 91 YTD	NOV' 90 YTD	% CHANGE
Canada	\$ 9,655,827	\$ 9,711,756	-0.6%	\$123,033,305	\$171,030,866	-28.1%
Mexico	11,771,809	10,458,583	12.6%	109,473,041	99,550,107	10.0%
Germany	7,369,154	9,883,138	-25.4%	94,614,189	76,155,005	24.2%
Japan	4,875,561	9,381,207	-48.0%	88,786,895	75,669,366	17.3%
South Korea	9,033,801	13,721,756	-34.2%	84,648,206	76,250,670	11.0%
China	7,042,499	7,246,656	-2.8%	60,161,333	35,865,788	67.7%
United Kingdom	2,229,330	3,166,436	-29.6%	55,303,077	78,268,879	-29.3%
France	564,504	5,613,555	-89.9%	38,470,161	26,760,344	43.8%
Italy	2,866,751	321,537	791.6%	23,111,786	25,323,250	-8.7%
USSR	1,457,498	0	NA	19,506,628	8,594,168	127.0%
Taiwan	1,154,194	1,194,859	-3.4%	19,337,773	27,766,225	-30.4%
Brazil	629,221	2,499,128	-74.8%	18,874,785	24,833,816	-24.0%
Belgium	2,434,488	561,612	333.5%	15,243,383	21,198,591	-28.1%
Singapore	562,412	914,784	-38.5%	13,813,880	13,694,231	0.9%
Australia	175,364	923,955	-81.0%	13,647,423	21,305,184	-35.9%
Netherlands	295,680	233,337	26.7%	13,400,800	14,795,283	-9.4%
India	1,053,781	659,294	59.8%	13,395,624	26,174,899	-48.8%
Venezuela	1,607,466	1,020,424	57.5%	13,187,693	8,860,502	48.8%
Thailand	1,427,599	1,019,850	40.0%	11,929,445	6,459,972	84.7%
Indonesia	492,546	1,006,480	-51.1%	10,220,931	7,086,036	44.2%
Spain	2,166,674	1,268,810	70.8%	9,037,902	11,273,693	-19.8%
Switzerland	826,795	518,789	59.4%	7,825,043	7,365,802	6.2%
Malaysia	74,868	195,830	-61.8%	4,412,746	6,830,931	-35.4%
Austria	31,027	75,800	-59.1%	1,243,097	2,690,793	-53.8%

1991 IMPORTS

METAL CUTTING

COUNTRY	NOVEMBER	OCTOBER	% CHANGE	NOV' 91 YTD	NOV' 90 YTD	% CHANGE
Japan	\$70,829,888	\$81,114,311	-12.7%	\$722,743,597	\$795,365,671	-9.1%
Germany	18,614,952	15,171,967	22.7%	321,766,817	287,127,630	12.1%
Taiwan	6,587,684	10,674,787	-38.3%	97,573,345	116,925,197	-16.6%
Switzerland	8,157,318	6,734,375	21.1%	73,156,545	84,203,115	-13.1%
United Kingdom	3,390,960	6,476,164	-47.6%	68,264,272	95,747,411	-28.7%
Italy	3,716,725	2,012,195	84.7%	46,241,784	50,803,994	-9.0%
France	631,529	1,779,377	-64.5%	18,482,046	22,586,057	-18.2%
South Korea	1,434,671	1,850,690	-22.5%	17,436,005	17,072,503	2.1%
Canada	1,974,737	895,315	120.6%	16,580,796	19,946,034	-16.9%
Sweden	1,416,031	1,194,577	18.5%	16,203,632	15,919,591	1.8%
Spain	1,153,598	535,317	115.5%	15,854,212	24,298,495	-34.8%
Singapore	1,270,367	1,664,363	-23.7%	12,030,450	17,719,830	-32.1%
Brazil	399,648	458,322	-12.8%	7,886,894	12,276,555	-35.8%
Belgium	14,399	144,477	-90.0%	1,843,433	1,670,269	10.4%

METAL FORMING

COUNTRY	NOVEMBER	OCTOBER	% CHANGE	NOV' 91 YTD	NOV' 90 YTD	% CHANGE
Japan	\$10,188,048	\$13,926,257	-26.8%	\$188,170,386	\$190,906,550	-1.4%
Germany	5,317,209	7,965,094	-33.2%	82,184,456	72,031,864	14.1%
Canada	3,202,461	2,224,303	44.0%	40,169,766	62,684,233	-35.9%
Italy	2,466,824	2,888,087	-14.6%	31,942,489	35,639,709	-10.4%
Brazil	0	0	NA	19,759,871	202,406	NA
Switzerland	1,139,191	1,813,596	-37.2%	18,863,818	23,123,377	-18.4%
United Kingdom	787,457	1,611,265	-51.1%	15,257,158	14,432,693	5.7%
Sweden	556,692	758,496	-26.6%	9,835,424	31,490,816	-68.8%
Belgium	547,874	383,788	42.8%	8,549,868	20,015,013	-57.3%
Taiwan	472,807	685,434	-31.0%	6,611,748	8,406,192	-21.3%
Spain	218,269	220,353	-0.9%	3,085,343	3,981,175	-22.5%
France	107,572	304,847	-64.7%	2,514,918	3,383,738	-25.7%
South Korea	5,250	13,980	-62.4%	541,725	638,547	-15.2%
Singapore	0	117,501	-100.0%	417,755	174,645	139.2%

MACHINE TOOL TOTAL

COUNTRY	NOVEMBER	OCTOBER	% CHANGE	NOV' 91 YTD	NOV' 90 YTD	% CHANGE
Japan	\$81,017,936	\$95,040,568	-14.8%	\$910,913,983	\$986,272,221	-7.6%
Germany	23,932,161	23,137,061	3.4%	403,951,273	359,159,494	12.5%
Taiwan	7,060,491	11,360,221	-37.8%	104,185,093	125,331,389	-16.9%
Switzerland	9,296,509	8,547,971	8.8%	92,020,363	107,326,492	-14.3%
United Kingdom	4,178,417	8,087,429	-48.3%	83,521,430	110,180,104	-24.2%
Italy	6,183,549	4,900,282	26.2%	78,184,273	86,443,703	-9.6%
Canada	5,177,198	3,119,618	66.0%	56,750,562	82,630,267	-31.3%
Brazil	399,648	458,322	-12.8%	27,646,765	12,478,961	121.5%
Sweden	1,972,723	1,953,073	1.0%	26,039,056	47,410,407	-45.1%
France	739,101	2,084,224	-64.5%	20,996,964	25,969,795	-19.1%
Spain	1,371,867	755,670	81.5%	18,939,555	28,279,670	-33.0%
South Korea	1,439,921	1,864,670	-22.8%	17,977,730	17,711,050	1.5%
Singapore	1,270,367	1,781,864	-28.7%	12,448,205	17,894,475	-30.4%
Belgium	562,273	528,265	6.4%	10,393,301	21,685,282	-52.1%

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$3,025	5,350	\$13,231,937	5,314	\$9,384,660	5,918	\$12,359,757	5,272	\$15,333,596
Boring machines	8	572,189	8	2,689,884	7	490,980	10	781,577
Drilling machines	104	2,125,292	72	2,302,444	98	2,731,002	94	1,177,353
Gear cutting machines	14	7,378,919	23	3,441,470	16	3,898,627	22	6,720,535
Grinding machines	244	5,937,543	272	10,254,977	275	8,387,839	313	11,543,197
NC horizontal lathes	15	2,388,500	33	3,043,968	29	3,419,112	38	4,707,962
NC vertical lathes	1	161,310	2	341,835	6	371,174	1	89,700
Non-NC lathes	37	817,093	46	1,273,108	34	912,266	64	1,399,820
Milling machines	21	1,285,651	27	1,256,940	56	1,629,636	35	6,730,275
Machining centers	18	2,251,834	27	4,699,366	21	6,179,301	33	5,723,799
Station type machines	7	6,763,963	10	16,280,662	3	3,750,445	0	0
Other metal cutting machines	223	7,078,662	278	7,046,503	322	7,317,458	266	6,517,985
Punching & shearing machines	108	4,513,331	79	5,456,279	85	4,584,562	157	4,594,728
Bending & forming machines	116	4,251,882	102	6,952,107	119	7,232,573	120	4,830,552
Presses	293	7,418,063	96	5,734,227	128	4,847,879	168	7,262,958
Forging machines	11	2,746,151	19	5,146,204	21	4,124,370	11	868,133
Other metal forming machines	231	7,030,224	185	7,182,512	193	9,543,993	308	14,549,088
MACHINE TOOL TOTAL	6,801	75,952,544	6,593	92,487,146	7,331	81,780,974	6,912	92,831,258

PRODUCT TYPES	MAY 1991		JUNE 1991		JULY 1991		AUGUST 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$3,025	5,847	\$14,473,978	6,716	\$15,068,308	5,909	\$16,595,564	7,211	\$21,518,830
Boring machines	9	811,684	29	2,458,144	53	1,485,134	21	1,762,000
Drilling machines	81	1,767,423	182	2,096,676	182	2,218,922	78	1,759,560
Gear cutting machines	39	6,598,232	42	10,858,258	11	4,027,477	7	2,476,528
Grinding machines	285	9,241,644	390	12,599,243	398	11,576,263	308	6,788,528
NC horizontal lathes	19	1,914,295	25	2,373,736	26	2,567,207	23	2,111,735
NC vertical lathes	9	592,211	2	108,000	4	269,504	1	22,000
Non-NC lathes	45	1,357,057	49	2,263,152	27	407,865	35	1,881,608
Milling machines	57	5,134,958	73	6,889,800	57	3,124,857	48	2,636,055
Machining centers	37	5,715,931	24	2,660,799	26	3,139,607	12	948,374
Station type machines	4	3,143,769	6	2,649,559	5	4,718,427	2	80,000
Other metal cutting machines	341	8,257,118	273	9,131,128	198	4,100,231	281	9,631,000
Punching & shearing machines	111	5,445,644	129	3,810,698	132	3,568,471	115	4,809,018
Bending & forming machines	108	5,331,914	257	9,068,216	169	6,262,244	176	6,665,618
Presses	96	6,098,800	210	6,552,960	199	11,252,200	126	7,336,120
Forging machines	40	4,435,634	40	5,388,723	57	8,447,700	38	9,086,436
Other metal forming machines	223	22,718,552	234	11,390,564	225	6,748,375	194	11,311,721
MACHINE TOOL TOTAL	7,351	103,038,844	8,681	105,367,964	7,678	90,510,048	8,676	90,825,131

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1991		OCTOBER 1991		NOVEMBER 1991		NOVEMBER 1991 YTD	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$3,025	4,681	\$13,799,781	4,312	\$14,136,772	5,785	\$13,836,478	62,315	\$159,739,661
Boring machines	3	82,808	8	1,566,411	5	524,907	161	13,225,718
Drilling machines	72	1,649,843	98	1,189,185	90	2,392,865	1,151	21,410,565
Gear cutting machines	49	6,635,184	32	4,683,694	21	3,679,001	276	60,397,925
Grinding machines	233	5,137,364	252	8,200,926	288	8,309,567	3,258	97,977,091
NC horizontal lathes	22	2,547,345	36	4,088,207	25	4,655,517	291	33,817,584
NC vertical lathes	1	31,150	2	267,983	1	160,000	30	2,414,867
Non-NC lathes	49	1,621,326	52	1,694,551	54	1,088,404	492	14,716,250
Milling machines	16	363,774	103	2,701,167	40	1,717,381	533	33,470,494
Machining centers	37	9,299,241	20	4,843,346	17	3,051,498	272	48,513,096
Station type machines	15	1,103,920	33	6,066,181	14	3,259,172	99	47,816,098
Other metal cutting machines	215	6,841,529	233	6,192,397	248	5,153,383	2,878	77,267,394
Punching & shearing machines	117	3,929,919	120	2,900,772	80	4,425,479	1,233	48,038,901
Bending & forming machines	122	4,852,226	116	4,024,662	98	3,452,373	1,503	62,924,367
Presses	169	9,193,318	119	7,690,788	116	5,196,177	1,720	78,583,490
Forging machines	52	3,892,191	39	4,376,386	21	4,523,977	349	53,035,905
Other metal forming machines	171	6,665,077	315	11,517,430	316	12,529,463	2,595	121,186,999
MACHINE TOOL TOTAL	6,024	77,645,996	5,890	86,140,858	7,219	77,955,642	79,156	974,536,405

PRODUCT TYPES	NOVEMBER 1990		NOVEMBER 1990 YTD		% CHANGE OCT '91-NOV '91		% CHANGE NOV '90-NOV '91	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$3,025	4,220	\$9,811,078	55,920	\$144,319,673	34.2%	-2.1%	37.1%	41.0%
Boring machines	5	453,080	147	15,436,939	-37.5%	-66.5%	0.0%	15.9%
Drilling machines	59	1,220,482	930	17,068,157	-8.2%	101.2%	52.5%	96.1%
Gear cutting machines	24	4,326,960	232	52,445,405	-34.4%	-21.5%	-12.5%	-15.0%
Grinding machines	399	10,473,970	3,635	119,512,128	14.3%	1.3%	-27.8%	-20.7%
NC horizontal lathes	26	2,776,395	380	40,446,976	-30.6%	13.9%	-3.8%	67.7%
NC vertical lathes	2	287,836	64	12,052,640	-50.0%	-40.3%	-50.0%	-44.4%
Non-NC lathes	70	1,500,069	701	15,662,718	3.8%	-35.8%	-22.9%	-27.4%
Milling machines	21	1,976,806	406	34,008,916	-61.2%	-36.4%	90.5%	-13.1%
Machining centers	25	3,961,612	367	53,245,250	-15.0%	-37.0%	-32.0%	-23.0%
Station type machines	7	5,952,523	71	41,579,853	-57.6%	-46.3%	100.0%	-45.2%
Other metal cutting machines	395	6,820,575	3,793	71,793,150	6.4%	-16.8%	-37.2%	-24.4%
Punching & shearing machines	167	6,683,192	1,390	60,118,862	-33.3%	52.6%	-52.1%	-33.8%
Bending & forming machines	139	6,281,392	1,682	65,400,029	-15.5%	-14.2%	-29.5%	-45.0%
Presses	113	11,284,355	1,900	90,020,233	-2.5%	-32.4%	2.7%	-54.0%
Forging machines	18	3,400,845	335	44,177,705	-46.2%	3.4%	16.7%	33.0%
Other metal forming machines	232	9,985,194	2,812	92,927,762	0.3%	8.8%	36.2%	25.5%
MACHINE TOOL TOTAL	5,922	87,196,364	74,765	970,216,396	22.6%	-9.5%	21.9%	-10.6%

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE YTD '90-YTD '91	
	Units	Value
Used & rebuilt & under \$3,025	11.4%	10.7%
Boring machines	9.5%	-14.3%
Drilling machines	23.8%	25.4%
Gear cutting machines	19.0%	15.2%
Grinding machines	-10.4%	-18.0%
NC horizontal lathes	-23.4%	-16.4%
NC vertical lathes	-53.1%	-80.0%
Non-NC lathes	-29.8%	-6.0%
Milling machines	31.3%	-1.6%
Machining centers	-25.9%	-8.9%
Station type machines	39.4%	15.0%
Other metal cutting machines	-24.1%	7.6%
Punching & shearing machines	-11.3%	-20.1%
Bending & forming machines	-10.6%	-3.8%
Presses	-9.5%	-12.7%
Forging machines	4.2%	20.1%
Other metal forming machines	-7.7%	30.4%
MACHINE TOOL TOTAL	5.9%	0.4%

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$3,025	71,667	\$13,094,991	94,612	\$15,968,463	63,827	\$14,630,134	91,842	\$16,332,717
Boring machines	75	3,212,626	65	3,295,233	55	6,672,018	47	5,623,400
Drilling machines	136	5,284,960	72	2,124,951	105	5,761,640	107	2,964,231
Gear cutting machines	34	7,247,022	30	2,608,872	12	3,256,264	23	6,619,154
Grinding machines	662	23,141,603	464	17,045,322	540	20,820,588	509	26,824,722
NC horizontal lathes	158	17,509,455	251	25,854,656	244	28,306,454	280	25,531,297
NC vertical lathes	9	1,367,349	15	2,253,656	9	2,973,011	15	3,573,928
Non-NC lathes	722	8,815,703	340	4,755,176	312	7,055,881	317	4,534,633
Milling machines	449	12,771,541	257	2,795,380	250	4,970,541	330	9,449,803
Machining centers	293	33,595,255	212	22,089,069	167	23,849,656	189	59,165,452
Station type machines	14	4,189,738	4	1,830,253	5	1,401,630	19	4,376,300
Other metal cutting machines	448	11,368,644	217	12,635,073	254	16,773,980	329	18,589,257
Punching & shearing machines	67	5,697,766	59	1,638,364	89	5,334,266	100	4,429,933
Bending & forming machines	189	6,557,096	183	8,695,550	147	8,228,937	122	3,949,688
Presses	72	16,236,188	317	9,033,944	163	8,995,976	85	51,444,817
Forging machines	59	5,028,586	47	2,528,010	51	5,954,214	44	6,285,995
Other metal forming machines	286	13,786,011	230	15,783,509	277	12,006,374	243	13,702,533
MACHINE TOOL TOTAL	75,340	188,904,534	97,375	150,935,481	66,507	176,991,564	94,601	263,397,860

PRODUCT TYPES	MAY 1991		JUNE 1991		JULY 1991		AUGUST 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$3,025	61,461	\$13,487,177	60,137	\$11,892,444	55,148	\$13,352,862	74,318	\$11,870,677
Boring machines	53	7,001,111	55	3,314,472	51	3,685,439	45	1,801,332
Drilling machines	79	6,287,879	146	3,825,684	73	2,839,334	86	2,335,487
Gear cutting machines	91	4,865,147	57	3,552,435	32	3,543,870	19	3,725,410
Grinding machines	515	14,511,571	382	13,752,180	468	18,779,695	386	21,596,437
NC horizontal lathes	197	20,692,781	196	20,231,721	199	18,351,920	227	23,514,958
NC vertical lathes	2	1,159,139	6	908,254	10	2,266,809	13	3,920,266
Non-NC lathes	442	10,258,079	402	8,630,438	555	6,940,660	308	4,206,757
Milling machines	226	5,441,990	328	6,999,359	374	6,736,063	292	4,643,995
Machining centers	199	40,498,256	231	62,377,569	249	23,528,172	204	28,546,978
Station type machines	16	13,375,688	8	1,595,456	8	8,078,447	16	13,974,758
Other metal cutting machines	252	18,837,312	314	9,426,321	298	12,496,402	289	12,912,572
Punching & shearing machines	109	4,442,498	74	5,337,144	106	5,805,391	84	4,603,173
Bending & forming machines	124	7,388,462	129	5,919,854	156	7,413,619	131	4,386,000
Presses	301	9,718,955	131	5,872,448	102	5,129,418	307	6,092,772
Forging machines	152	6,220,779	69	5,986,386	35	1,841,002	87	6,995,815
Other metal forming machines	172	10,036,703	180	9,024,713	194	9,644,967	131	9,510,828
MACHINE TOOL TOTAL	64,391	194,223,527	62,845	178,646,878	58,058	150,434,070	76,943	164,638,215

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1991		OCTOBER 1991		NOVEMBER 1991		NOVEMBER 1991 YTD	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$3,025	68,503	\$12,925,407	94,403	\$14,087,197	111,175	\$14,918,645	847,093	\$152,560,714
Boring machines	64	4,555,634	66	2,256,498	31	5,254,256	607	50,672,019
Drilling machines	61	2,902,483	55	2,816,039	93	1,899,560	1,013	39,042,248
Gear cutting machines	11	1,036,962	28	4,458,812	16	1,227,250	353	42,141,198
Grinding machines	413	25,438,841	432	18,082,688	406	18,842,149	5,177	218,835,796
NC horizontal lathes	141	15,597,511	169	19,056,907	206	18,777,045	2,268	233,424,705
NC vertical lathes	11	3,650,775	10	4,071,036	5	1,848,978	105	27,993,201
Non-NC lathes	299	5,939,533	427	6,345,190	269	3,372,968	4,393	70,855,018
Milling machines	196	2,605,184	283	3,472,283	170	3,332,917	3,155	63,219,056
Machining centers	261	32,637,026	253	27,719,237	217	23,682,408	2,475	377,689,078
Station type machines	12	12,689,422	19	19,071,415	17	18,596,910	138	99,180,017
Other metal cutting machines	257	11,639,564	258	13,628,425	343	16,455,159	3,259	154,762,709
Punching & shearing machines	75	5,842,087	85	6,594,446	69	4,166,222	917	53,891,290
Bending & forming machines	121	6,484,435	116	4,516,959	131	6,756,793	1,549	70,297,393
Presses	601	4,173,370	307	9,947,795	95	4,932,849	2,481	131,578,532
Forging machines	19	5,358,263	62	6,036,144	58	2,484,812	683	54,720,006
Other metal forming machines	123	5,429,895	157	5,966,043	383	6,109,370	2,376	111,000,946
MACHINE TOOL TOTAL	71,168	158,906,392	97,130	172,127,114	113,684	152,658,291	878,042	1,951,863,926

PRODUCT TYPES	NOVEMBER 1990		NOVEMBER 1990 YTD		OCT '91-NOV '91		Z CHANGE NOV '90-NOV '91	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under \$3,025	81,074	\$10,309,845	890,606	\$141,957,287	17.8%	5.9%	37.1%	44.7%
Boring machines	80	2,589,433	608	40,357,192	-53.0%	-16.0%	-61.3%	102.9%
Drilling machines	83	2,416,938	1,327	42,097,887	69.1%	-32.5%	12.0%	-21.4%
Gear cutting machines	40	3,791,633	473	50,181,916	-42.9%	-72.5%	-60.0%	-67.6%
Grinding machines	553	16,903,675	7,823	265,761,102	-6.0%	4.2%	-26.6%	11.5%
NC horizontal lathes	126	12,878,638	2,827	276,543,593	21.9%	-1.5%	63.5%	45.8%
NC vertical lathes	20	4,701,725	171	27,468,084	-50.0%	-54.6%	-75.0%	-60.7%
Non-NC lathes	671	7,463,658	7,664	106,529,324	-37.0%	-46.8%	-59.9%	-54.8%
Milling machines	432	6,210,377	4,955	78,414,144	-39.9%	-4.0%	-60.6%	-46.3%
Machining centers	168	23,710,026	2,807	370,390,364	-14.2%	-14.6%	29.2%	-0.1%
Station type machines	10	3,075,052	161	80,452,997	-10.5%	-2.5%	70.0%	504.8%
Other metal cutting machines	418	15,404,784	4,443	179,850,623	32.9%	20.7%	-17.9%	6.8%
Punching & shearing machines	148	10,520,914	1,562	73,258,093	-18.8%	-36.8%	-53.4%	-60.4%
Bending & forming machines	167	8,328,936	2,034	87,356,634	12.9%	49.6%	-21.6%	-18.9%
Presses	103	18,034,029	3,356	104,986,851	-69.1%	-50.4%	-7.8%	-72.6%
Forging machines	68	3,402,818	908	57,285,295	-6.5%	-58.8%	-14.7%	-27.0%
Other metal forming machines	214	15,792,641	2,534	134,088,174	143.9%	2.4%	79.0%	-61.3%
MACHINE TOOL TOTAL	84,375	165,535,122	934,259	2,116,979,560	17.0%	-11.3%	34.7%	-7.8%

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE YTD '90-YTD '91	
	Units	Value
Used & rebuilt & under \$3,025	-4.9%	7.5%
Boring machines	-0.2%	25.6%
Drilling machines	-23.7%	-7.3%
Gear cutting machines	-25.4%	-16.0%
Grinding machines	-33.8%	-17.7%
NC horizontal lathes	-19.8%	-15.6%
NC vertical lathes	-38.6%	1.9%
Non-NC lathes	-42.7%	-33.5%
Milling machines	-36.3%	-19.4%
Machining centers	-11.8%	2.0%
Station type machines	-14.3%	23.3%
Other metal cutting machines	-26.6%	-13.9%
Punching & shearing machines	-41.3%	-26.4%
Bending & forming machines	-23.8%	-19.5%
Presses	-26.1%	25.3%
Forging machines	-24.8%	-4.5%
Other metal forming machines	-6.2%	-17.2%
MACHINE TOOL TOTAL	-6.0%	-7.8%

U.S. EXPORTS
Metal Cutting Machine Tools - November 91

RELEASED: January 29, 1992

		TOTAL YTD		TOTAL MO.	
		UNITS	\$000	UNITS	\$000
8456300000	Electro-discharge machines	127	8849	12	739
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	70	11942	3	510
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	19	4652	0	0
100035	Horizontal machining centers, ATC	45	16054	3	1087
100045	Machining centers, n.e.c.	138	15866	11	1455
200310	Unit construction mach. (single station transfer), NC	7	3404	1	1069
200090	Unit construction mach. (single station transfer), non-NC	13	3090	0	0
300010	Multi-station transfer machines, NC	8	14559	0	0
300090	Multi-station transfer machines, non-NC	67	26507	13	2190
8458110010	Horizontal lathes, multiple spindle, NC	41	5559	8	1142
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	188	16478	8	765
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	31	5133	2	413
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	31	6647	7	2335
190030	Horizontal engine or toolroom lathes, non-NC	37	589	4	55
190050	Automatic bar and/or chucking mach., single spindle, non-NC	19	309	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	49	3266	1	207
190090	Horizontal lathes, n.e.c., non-NC	291	6963	46	772
911060	Vertical turret lathes, multiple spindle, NC	1	45	0	0
911080	Vertical turret lathes, n.e.c., NC	3	644	1	160
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	26	1726	0	0
991050	Vertical turret lathes, non-NC	28	1007	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	68	2583	3	55
8459100000	Way-type unit head machines	4	257	0	0
210080	Other drilling machines, NC	168	12845	16	1537
290040	Drilling machines, multiple spindle, non-NC	3	380	0	0
290050	Drilling machines, radial, non-NC	31	940	7	350
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	28	982	0	0
290090	Drilling machines, n.e.c., non-NC	921	6262	67	506
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	2	1280	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	7	4062	0	0
310070	Boring-milling machines, n.e.c., NC	23	1572	3	295
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	4	253	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	15	357	0	0
400040	Boring machines, vertical, NC	7	670	1	199
400050	Boring machines, vertical, non-NC	32	1582	1	31
400070	Boring machines, n.e.c., NC	1	148	0	0
400080	Boring machines, n.e.c., non-NC	70	3302	0	0
510080	Milling machines, knee type, NC	24	1773	2	63
590030	Milling machines, knee type, non-NC	95	3553	4	221
610080	Milling machines, excluding knee type, n.e.c., NC	65	18295	12	1050
690050	Milling machines, profile, dup., or die sinking, non-NC	5	34	0	0
690070	Milling machines, bed type, non-NC	2	69	1	33
690090	Milling machines, n.e.c., non-NC	342	9746	21	351
700020	Threading or tapping machines, n.e.c., NC	59	2360	6	149
700080	Threading or tapping machines, n.e.c., non-NC	252	8324	43	1719
8460110080	Flat surface grinding machines, NC	69	4649	20	695
190010	Flat surface grinding mach., recip.-table type, non-NC	63	871	3	27
190050	Flat surface grinding machines, n.e.c., non-NC	34	4577	4	913
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	108	34377	8	2135
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	33	5094	2	227
290030	Grinding machines, internal cylindrical, non-NC	32	3657	15	726
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	342	10857	11	271
310080	Sharpening machines (tool & cutter grinding), NC	27	1987	1	35
390050	Sharpening machines (tool & cutter grinding), non-NC	810	7729	31	1094
400060	Honing or lapping machines, NC	13	974	3	110
400080	Honing or lapping machines, non-NC	470	6943	17	252
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	10	1217	3	105
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1247	15046	170	1719
8461100060	Planing machines, NC	2	219	0	0
100080	Planing machines, non-NC	165	6110	12	283
200010	Shaping or slotting machines, NC	17	1633	0	0
200090	Shaping or slotting machines, non-NC	29	756	0	0
300060	Broaching machines, NC	9	1196	0	0
300080	Broaching machines, non-NC	41	2617	0	0
401050	Gear hobbers	74	6593	1	34
401070	Gear shapers	13	1445	3	182
401090	Gear cutting machines, n.e.c.	94	43221	8	3352
405060	Gear grinding or finishing machines	95	9139	9	111
500050	Sawing or cutting-off machines, NC	105	5426	9	266
500090	Sawing or cutting-off machines, non-NC	1255	15541	82	1118
9000000001	Metal cutting machine tools, n.e.c.	817	24237	84	879
9800000001	Used or rebuilt machine tools	6387	70042	547	6692
9900000001	Machine tools valued at less than \$3,025	38734	22599	4020	2465

Please see notes on last page of the metal forming section.

Cutting Total
Y-T-D Cutting Total
NC Y-T-D Cutting Total*

54562 543668
1628 217721

5370 43149

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	Australia		Austria		Belgium		Brazil		Canada	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	1	220
100035	0	0	0	0	0	0	0	0	2	333
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	120
300090	0	0	0	0	0	0	0	0	3	742
8458110010	0	0	0	0	0	0	0	0	1	74
110030	0	0	0	0	0	0	0	0	1	308
110050	0	0	0	0	0	0	0	0	2	311
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	207
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	26	309	6	56
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	5	23	24	105
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	31
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	63
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	4	788
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	3	47
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	73	0	0	2	8
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	10
190050	0	0	0	0	0	0	0	0	1	84
210080	0	0	0	0	0	0	0	0	2	310
290010	0	0	0	0	0	0	0	0	1	21
290030	0	0	0	0	1	144	0	0	0	0
290050	0	0	0	0	0	0	0	0	3	26
310080	0	0	0	0	0	0	0	0	1	35
390050	0	0	0	0	0	0	5	33	12	97
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	11
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	6	0	0	3	36	34	411
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	1	39	0	0
500050	0	0	0	0	0	0	0	0	7	171
500090	0	0	0	0	0	0	1	20	18	122
9000000001	1	3	0	0	0	0	9	104	13	112
9800000001	1	3	0	0	1	15	0	0	62	917
9900000001	97	68	38	22	39	67	329	34	291	301
Month Tot	99	75	39	28	42	299	379	597	502	6042
Y-T-D Tot	949	4062	115	812	976	10072	1356	10993	5329	82643
NC YTD Tot*	9	1285	0	0	48	5518	30	4252	319	44510

Please see notes on last page of the metal forming section.

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	China		France		Germany **		India		Indonesia	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456300000	0	0	1	40	8	405	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
8457100035	1	530	0	0	0	0	0	0	0	0
100045	0	0	0	0	2	105	0	0	0	0
200010	1	1069	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	674	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	3	343	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	4	1748	0	0	1	276	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	1	100	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	7	725	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	23	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	1	37	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	2	191	0	0	0	0
8460110080	0	0	0	0	1	50	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	3	829	0	0	0	0
210080	3	837	0	0	0	0	2	452	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	14	582	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	5	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	16	0	0	4	74	0	0	0	0
900060	0	0	0	0	3	105	0	0	0	0
900080	0	0	1	4	10	101	4	26	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	3	59	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	626	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	1	25	0	0	0	0
500090	1	5	3	32	1	11	0	0	0	0
9000000001	1	6	0	0	0	0	0	0	2	23
9800000001	2	502	4	54	27	192	3	506	1	9
9900000001	9	6	5	3	122	69	0	0	0	0
Month Tot	41	5644	15	170	201	4645	9	984	3	32
Y-T-D Tot	743	36833	1384	16562	3298	55003	834	12324	99	4777
NC YTD Tot*	80	26641	52	7148	220	30409	13	2466	3	723

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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456300000	0	0	0	0	0	0	0	0	1	108
8457100015	1	189	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	3	680	0	0	2	180
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	3	241
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	1	105
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	1	4
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	3	22
190090	0	0	8	102	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	1	160
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	3	55
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	9	812
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	7	350	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	3	157
290090	0	0	0	0	16	72	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	3	295
310070	0	0	0	0	0	0	0	0	0	0
390010	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	1	146
590030	0	0	0	0	1	21	0	0	0	0
610080	1	78	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	1	33
690070	0	0	0	0	0	0	0	0	9	103
690090	0	0	1	10	0	0	0	0	0	0
700020	6	149	0	0	0	0	0	0	2	455
700080	28	812	4	72	0	0	0	0	0	0
8460110080	0	0	0	0	3	90	0	0	0	0
190010	0	0	1	9	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	537	0	0	0	0	0	0
290010	0	0	0	0	1	206	0	0	0	0
290030	0	0	0	0	0	0	0	0	3	33
290050	2	39	2	28	1	145	0	0	0	0
310080	0	0	0	0	0	0	0	0	1	9
390050	1	515	3	69	5	31	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	11	7	135	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	3	19	3	35	4	17	23	236
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	21	0	0	0	0	1	51
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	34
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	2	207
401090	1	663	0	0	0	0	0	0	1	15
405060	7	58	0	0	0	0	0	0	1	70
500050	0	0	0	0	0	0	0	0	10	125
500090	2	33	29	526	4	40	0	0	1	6
9000000001	0	0	16	197	13	160	0	0	225	2519
9800000001	4	72	5	86	23	252	0	0	797	496
9900000001	89	91	211	113	69	68	33	40		
Month Tot	142	2698	293	2150	149	1933	37	57	1109	6674
Y-T-D Tot	907	13082	5398	49156	3322	45671	294	2989	10316	54734
NC YTD Tot*	25	4225	125	13791	69	12212	6	187	208	20353

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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456300000	0	0	0	0	0	0	1	44	0	0
8457100015	0	0	0	0	0	0	1	130	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	3	14	0	0	0	0	2	54
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	2	110	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	2	326	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	10	55	0	0	0	0	4	46
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	2	47
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	3	1813	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	1	10	0	0	2	45
9000000001	0	0	0	0	0	0	10	111	5	56
9800000001	0	0	2	7	48	336	0	0	0	0
9900000001	41	33	391	285	0	0	34	33	49	50
Month Tot	41	33	408	471	52	2158	48	644	64	298
Y-T-D Tot	612	4279	3109	7827	322	4293	807	5135	1239	10100
NC YTD Tot*	11	1907	24	2335	8	841	19	2432	27	3260

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 91

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456300000	0	0	0	0	0	0	0	0	1	142
8457100015	0	0	0	0	0	0	0	0	1	191
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	1	336
100045	0	0	0	0	0	0	0	0	2	157
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	11	1396	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	2	159
110030	0	0	2	195	0	0	0	0	2	153
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	1	3	0	0	0	0	2	48
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	2	184	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	9	45	0	0	0	0	3	14
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	199
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	1	16	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	7	184
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	8	191
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	10	0	0	1	91	2	7
8460110080	0	0	10	335	0	0	0	0	4	111
190010	0	0	0	0	0	0	0	0	1	7
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	9
400060	0	0	3	110	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	6
900060	0	0	0	0	0	0	0	0	0	0
900080	3	28	2	21	0	0	37	391	28	289
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	3	0	0	0	0	4	102
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	3	182
401090	0	0	0	0	0	0	0	0	1	43
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	5	0	0	2	32	7	114
9000000001	0	0	8	53	0	0	1	10	4	38
9800000001	0	0	21	817	8	3	9	31	101	372
9900000001	11	7	285	64	0	0	240	131	840	484
Month Tot	14	35	345	1677	19	1399	292	868	1027	3538
Y-T-D Tot	838	2209	3889	26950	185	19326	1222	10229	7019	53605
NC YTD Tot*	18	1106	136	11642	5	456	19	1948	154	18075

Please see notes on last page of the metal forming section.

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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 91

RELEASED: January 29, 1992

Metal Forming Machine Tools

	TOTAL YTD		TOTAL MO.	
	UNITS	\$000	UNITS	\$000
8454300010 Die casting machines	282	6535	16	185
8462100030 Headers and upsetters, including cold headers	55	22916	3	1321
100050 Forging or die stamping machines, and hammers, n.e.c.	294	30120	18	3203
210080 Bending, folding, straight. or flat. mach., incl presses, NC	239	23204	23	2003
290030 Press brakes, non-NC	97	3201	5	156
290040 Bending rolls, non-NC	51	1304	4	45
290050 Bending, folding, straight., or flat., n.e.c., non-NC	1116	35215	66	1248
310080 Shearing machines, NC	93	7464	12	1507
390050 Shearing machines, non-NC	323	8779	39	1218
410080 Punching or notching mach., incl. comb. punch & shear, NC	122	16088	9	1104
490050 Punching or notching mach., incl. comb. punch & sh., non-NC	695	15708	20	596
910060 Hydraulic presses, NC	25	955	1	7
910090 Hydraulic presses, non-NC	518	17375	42	1100
990030 Presses, n.e.c., NC	189	11263	18	967
990040 Presses, mechanical, non-NC	136	11497	4	160
990060 Presses, n.e.c., non-NC	852	37494	51	2962
8463100080 Draw benches for bars, tubes, profiles, wire or the like	218	7067	18	268
200080 Thread rolling machines	51	1610	6	154
300080 Machines for working wire	700	20360	102	4032
900080 Metal forming machine tools, n.e.c.	1344	85616	174	7890
9800000002 Used or rebuilt machine tools	3035	55959	200	3944
9900000002 Machine tools valued at less than \$3,025	14159	11139	1018	736
Forming Total			1849	34807
Y-T-D Forming Total	24594	430868		
NC Y-T-D Forming Total	668	58974		
Cutting and Forming Totals:				
Monthly Total			7219	77956
Y-T-D Total	79156	974536		
NC Y-T-D Total*	2296	276695		

Other Manufacturing Technology

	TOTAL YTD		TOTAL MO.	
	UNITS	\$000	UNITS	\$000
1000000000 Machine tool parts and accessories	0	619035	0	57291
2000000000 Parts for working rubber or plastics - heading 8477	0	235903	0	19066
2710003070 Quenching or cutting oils	0	6129	0	534
8428900010 Industrial robots for lifting, handling, loading or unload	576	7304	66	535
8431390090 Parts industrial robots, handling and loading - heading 8428	0	87524	0	8739
8456100000 Laser, light or photon beam for working any material	534	33149	47	2530
200000 Ultrasonic process for working any material	58	2286	7	269
8477106010 Injection molding mach., for rubber or oth. thermosetting	246	19247	14	1279
106070 Injection molding machines, for thermoplastics	495	53178	48	4935
200005 Extruders; rubber or other thermosetting mat., single screw	106	7380	8	364
200015 Extruders; rubber or thermosetting, other incl. multi. screw	121	10436	4	367
200030 Extruders; thermoplastics, single screw	449	24555	60	4070
200060 Extruders; thermoplastics, other incl. multi. screw	81	8217	5	439
300000 Blow molding machines	546	32349	51	4237
400000 Vacuum-molding and other thermoforming machines	1064	8728	128	1047
510010 Machines for molding or retreading pneumatic tires	2562	17015	137	2041
510090 Machines for molding or otherwise forming inner tubes	633	12258	35	873
590000 Machines for molding or otherwise forming n.e.c.	1576	28525	203	6279
800000 Machines for working rubber or plastics n.e.c.	4316	77430	207	11266
8479899040 Industrial robots, n.e.c.	5195	63262	354	4090
908040 Industrial robot parts	0	32127	0	2566
8537100030 Numerical controls for controlling machine tools	1446	20898	97	1403
9024100000 Machines and appliances for testing metals	0	63489	0	4432
9031100000 Machines for balancing mechanical parts	0	27361	0	1867
300000 Profile projectors	0	4800	0	596
9032810040 Industrial process control instr., hydraulic or pneumatic	790212	47211	52545	3855

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "NC Y-T-D Total" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming	Australia		Austria		Belgium		Brazil		Canada	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	1	980	0	0	0	0
100050	0	0	0	0	1	742	0	0	2	149
210080	0	0	0	0	1	36	0	0	1	54
290030	0	0	0	0	0	0	0	0	3	73
290040	1	8	0	0	0	0	0	0	2	20
290050	2	14	0	0	1	21	0	0	21	348
310080	0	0	0	0	0	0	0	0	2	412
390050	0	0	0	0	11	51	0	0	22	292
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	1	7	1	11	6	66
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	2	152
990030	0	0	0	0	0	0	0	0	4	69
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	2	17
8463100080	1	6	0	0	0	0	0	0	1	11
200080	2	45	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	13	2	26
900080	0	0	0	0	7	299	0	0	13	96
9800000002	0	0	0	0	0	0	0	0	35	1656
9900000002	49	28	3	3	0	0	10	8	173	172
Month Tot	55	101	3	3	23	2136	12	33	291	3614
Y-T-D Tot	514	9586	20	431	379	5171	237	7882	3059	40390
NC YTD Tot	4	210	3	99	24	743	19	1681	79	8739
C&F Month	154	175	42	31	65	2434	391	629	793	9656
C&F Y-T-D	1463	13647	135	1243	1355	15243	1593	18875	8388	123033
C&F NC YTD*	13	1495	3	99	72	6261	49	5933	398	53249

Other Manufacturing Technology

1000000000	0	1234	0	87	0	550	0	990	0	9887
2000000000	0	214	0	121	0	394	0	664	0	4624
2710003070	0	15	0	0	0	5	0	0	0	146
8428900010	0	0	0	0	0	0	2	79	5	57
8431390090	0	172	0	0	0	36	0	0	0	1294
8456100000	0	0	0	0	0	0	1	103	0	0
200000	0	0	0	0	0	0	0	0	1	148
8477106010	0	0	0	0	0	0	0	0	5	316
106070	3	260	0	0	0	0	1	69	5	1333
200005	0	0	0	0	0	0	0	0	3	246
200015	0	0	0	0	0	0	0	0	2	38
200030	3	146	0	0	1	61	2	62	0	0
200060	0	0	1	27	0	0	0	0	1	294
300000	0	0	0	0	0	0	2	5	3	1705
400000	0	0	0	0	0	0	0	0	3	191
510010	2	15	0	0	0	0	7	163	30	746
510090	0	0	0	0	0	0	2	49	0	0
590000	0	0	0	0	1	58	2	32	1	326
800000	0	0	0	0	0	0	2	546	69	5461
8479899040	0	0	0	0	1	13	8	21	264	1572
908040	0	5	0	0	0	11	0	0	0	860
8537100030	2	34	0	0	0	0	0	0	7	85
9024100000	0	56	0	0	0	28	0	125	0	414
9031100000	0	0	0	0	0	0	0	0	0	493
300000	0	0	0	0	0	0	0	30	0	17
9032810040	8	16	143	22	984	49	97	26	2090	305

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming	China		France		Germany **		India		Indonesia	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	0	0	1	15	0	0	0	0
8462100030	0	0	0	0	2	342	0	0	0	0
100050	0	0	1	49	0	0	0	0	0	0
210080	2	137	1	35	1	90	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	49	1	13	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	9	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	6	424	0	0	0	0	0	0	1	45
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	5	168
990030	1	241	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	7	1842	0	0	1	243
8463100080	0	0	0	0	2	56	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	3	75	8	146	0	0	0	0
900080	1	597	7	161	5	62	6	64	0	0
9800000002	0	0	0	0	6	122	0	0	0	0
9900000002	0	0	19	18	40	35	57	6	5	4
Month Tot	10	1399	33	394	73	2724	63	69	12	460
Y-T-D Tot	387	23328	936	21908	1779	39611	174	1071	167	5444
NC YTD Tot	27	2565	35	2753	37	4064	2	170	1	23
C&F Month	51	7042	48	565	274	7369	72	1054	15	493
C&F Y-T-D	1130	60161	2320	38470	5077	94614	1008	13396	266	10221
C&F NC YTD*	107	29206	87	9901	257	34474	15	2635	4	746

Other Manufacturing Technology

1000000000	0	458	0	1519	0	7754	0	338	0	61
2000000000	0	59	0	335	0	1650	0	72	0	50
2710003070	0	0	0	0	0	25	0	0	0	17
8428900010	0	0	0	0	2	16	0	0	0	0
8431390090	0	26	0	100	0	102	0	31	0	55
8456100000	0	0	0	0	1	17	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	2	166	0	0	0	0
106070	1	231	1	67	5	456	0	0	0	0
200005	0	0	0	0	5	117	0	0	0	0
200015	0	0	0	0	2	329	0	0	0	0
200030	0	0	0	0	4	376	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	2	37	1	18	0	0	0	0
400000	0	0	15	7	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510040	0	0	0	0	18	484	0	0	0	0
590000	1	525	0	0	14	216	1	21	30	478
800000	1	533	0	0	6	134	0	0	2	35
8479899040	0	0	0	0	18	1635	0	0	0	0
908040	0	0	0	41	0	370	0	14	0	0
8537100030	1	21	9	116	10	176	0	0	0	0
9024100000	0	45	0	95	0	904	0	29	0	0
9031100000	0	0	0	0	0	20	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
9032810040	15	62	2053	129	7073	478	798	53	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming		Italy		Japan		Korea		Malaysia		Mexico	
		Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010		0	0	0	0	0	0	0	0	1	5
8462100030		0	0	0	0	0	0	0	0	0	0
100050		0	0	2	89	2	756	0	0	2	438
210080		1	27	0	0	1	204	0	0	7	1039
290030		0	0	0	0	0	0	0	0	1	6
290040		0	0	0	0	0	0	0	0	1	17
290050		0	0	6	148	0	0	1	4	15	236
310080		0	0	6	330	0	0	0	0	3	707
390050		0	0	0	0	1	11	0	0	0	0
410080		0	0	0	0	1	320	0	0	2	55
490050		0	0	0	0	0	0	0	0	0	0
910060		1	7	0	0	0	0	0	0	0	0
910090		3	110	0	0	2	75	0	0	9	280
990030		0	0	0	0	0	0	0	0	1	15
990040		0	0	0	0	0	0	0	0	4	160
990060		0	0	0	0	2	77	0	0	35	533
8463100080		0	0	0	0	0	0	0	0	4	55
200080		0	0	0	0	0	0	0	0	2	51
300080		0	0	20	971	3	791	0	0	5	37
900080		1	24	21	1072	63	4356	0	0	11	144
9800000002		0	0	7	84	21	490	1	6	85	1102
9900000002		0	0	35	30	25	21	52	8	270	220
Month Tot		6	169	97	2725	124	7101	54	18	458	5098
Y-T-D Tot		592	10030	1618	39630	990	38977	194	1424	5035	54739
NC YTD Tot		7	665	53	5554	42	4876	1	29	80	7905
C&F Month		148	2867	390	4876	273	9034	91	75	1567	11772
C&F Y-T-D		1499	23112	7016	88787	4312	84648	488	4413	15351	109473
C&F NC YTD*		32	4890	178	19345	111	17088	7	216	288	28258

Other Manufacturing Technology

1000000000	0	1201	0	8458	0	1653	0	235	0	3358
2000000000	0	179	0	1181	0	831	0	126	0	1465
2710003070	0	6	0	37	0	78	0	0	0	0
8428900010	0	0	2	5	10	25	0	0	28	284
8431390090	0	13	0	52	0	274	0	0	0	215
8456100000	4	73	11	896	1	51	0	0	4	103
200000	0	0	1	17	0	0	0	0	1	17
8477106010	0	0	0	0	0	0	0	0	6	721
106070	3	147	0	0	2	477	0	0	4	289
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	1	830	0	0	0	0	0	0	14	341
200060	0	0	0	0	0	0	0	0	1	30
300000	2	268	0	0	0	0	0	0	20	460
400000	0	0	34	13	0	0	0	0	7	193
510010	0	0	0	0	18	460	0	0	1	5
510090	1	4	0	0	0	0	0	0	4	192
590000	3	53	23	353	0	0	0	0	1	15
800000	0	0	5	44	1	14	2	217	57	1708
8479899040	1	9	6	73	0	0	2	27	3	63
908040	0	419	0	178	0	4	0	0	0	28
8537100030	1	8	4	55	2	18	0	0	4	37
9024100000	0	64	0	564	0	82	0	99	0	133
9031100000	0	0	0	300	0	619	0	0	0	170
300000	0	37	0	75	0	0	0	300	0	0
9032810040	1374	103	460	39	1148	134	0	0	3156	301

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 91

Metal Forming	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	3	3	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	2	130	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	110
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	26	2	29	0	0	0	0	1	108
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	46	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	4	528
490050	1	21	0	0	0	0	0	0	1	3
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	2	51
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	1	31	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	19	0	0	0	0	7	148	2	41
900080	6	58	0	0	0	0	0	0	1	9
9800000002	0	0	4	4	1	9	0	0	0	0
9900000002	15	8	11	10	0	0	5	4	7	6
Month Tot	26	263	21	92	1	9	13	183	20	857
Y-T-D Tot	839	9122	500	5987	161	4745	353	2690	294	9238
NC YTD Tot	20	2132	17	1181	6	283	3	181	47	3357
C&F Month	67	296	429	562	53	2167	61	827	84	1154
C&F Y-T-D	1451	13401	3609	13814	483	9038	1160	7825	1533	19338
C&F NC YTD*	31	4039	41	3516	14	1124	22	2613	74	6617

Other Manufacturing Technology

1000000000	0	661	0	1255	0	194	0	634	0	718
2000000000	0	204	0	298	0	24	0	150	0	1241
2710003070	0	0	0	5	0	0	0	0	0	71
8428900010	3	4	0	0	0	0	0	0	0	0
8431390090	0	296	0	36	0	3	0	21	0	120
8456100000	1	15	0	0	2	168	4	135	2	582
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	1	53	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	1	1325
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	38	459	0	0	0	0	0	0
510010	57	154	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	7	11	0	0	0	0	2	35	98	3898
800000	23	1026	1	350	0	0	0	0	1	44
8479899040	1	15	4	26	0	0	17	171	1	8
908040	0	8	0	17	0	0	0	386	0	40
8537100030	3	34	1	12	0	0	0	0	0	0
9024100000	0	42	0	45	0	44	0	7	0	186
9031100000	0	13	0	64	0	8	0	0	0	0
300000	0	0	0	48	0	0	0	0	0	47
9032810040	7339	469	2005	183	6206	316	228	33	1149	74

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 91

Metal Forming	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	0	0	0	0	7	78	4	85
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	581	0	0	0	0	0	0	5	269
210080	0	0	6	272	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	77	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	132	1	5	0	0	1	10	10	104
310080	0	0	0	0	1	58	0	0	0	0
390050	0	0	0	0	0	0	0	0	3	809
410080	0	0	0	0	0	0	0	0	2	200
490050	0	0	1	5	0	0	1	7	1	7
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	5	164	0	0	0	0	14	100
990030	0	0	0	0	0	0	0	0	12	642
990040	0	0	0	0	0	0	0	0	0	0
990060	1	160	0	0	0	0	2	60	0	0
8463100080	4	107	3	20	0	0	0	0	3	13
200080	0	0	0	0	0	0	0	0	2	58
300080	17	413	1	5	0	0	2	327	30	1020
900080	0	0	3	21	0	0	1	13	28	915
9800000002	0	0	1	11	0	0	24	167	12	293
9900000002	0	0	59	51	0	0	0	0	183	104
Month Tot	25	1392	80	553	1	58	39	739	309	4619
Y-T-D Tot	473	9720	1593	28353	4	181	433	2958	3863	58252
NC YTD Tot	15	1447	55	2396	3	155	5	241	83	7524
C&F Month	39	1428	425	2229	20	1457	331	1607	1336	8157
C&F Y-T-D	1311	11929	5482	55303	189	19507	1655	13188	10882	111857
C&F NC YTD*	33	2553	191	14039	8	611	24	2189	237	25598

Other Manufacturing Technology

1000000000	0	303	0	5971	0	0	0	991	0	8772
2000000000	0	375	0	712	0	0	0	310	0	3789
2710003070	0	0	0	0	0	0	0	85	0	45
8428900010	0	0	3	14	0	0	0	0	11	51
8431390090	0	0	0	656	0	0	0	419	0	4818
8456100000	0	0	2	52	0	0	0	0	14	334
200000	4	87	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	75
106070	0	0	3	253	0	0	4	344	15	955
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	13	318	0	0	3	63	18	547
200060	0	0	0	0	0	0	0	0	2	87
300000	0	0	2	1004	0	0	0	0	19	740
400000	0	0	0	0	0	0	0	0	31	184
510010	0	0	1	7	0	0	0	0	21	491
510090	2	34	0	0	0	0	0	0	8	111
590000	1	10	6	43	0	0	0	0	12	205
800000	1	11	9	218	0	0	2	83	25	842
8479899040	0	0	8	254	0	0	0	0	20	202
908040	0	0	0	147	0	0	0	13	0	24
8537100030	0	0	38	574	0	0	1	25	14	210
9024100000	0	9	0	579	0	0	0	9	0	874
9031100000	0	35	0	18	0	0	0	0	0	127
300000	0	0	0	0	0	0	0	0	0	43
9032810040	0	0	3516	264	0	0	2143	107	10560	691

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	\$000	UNITS	\$000	UNITS	\$000
EUROPE						
Bulgaria	0	0	1	12	1	12
Czechoslovakia	0	0	0	0	0	0
Denmark	4	250	7	107	11	357
Finland	113	170	6	279	119	449
Greece	0	0	2	235	2	235
Hungary	2	21	0	0	2	21
Iceland	40	4	0	0	40	4
Ireland	3	216	3	852	6	1068
Luxembourg	0	0	0	0	0	0
Norway	10	21	0	0	10	21
Poland	0	0	0	0	0	0
Portugal	14	22	2	17	16	39
Romania	0	0	0	0	0	0
Sweden	27	15	37	119	64	134
Turkey	10	6	1	30	11	35
Yugoslavia	0	0	1	126	1	126
Oth Europe	1	18	0	0	1	18
TOTAL	1168	14493	319	8267	1487	22760
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	5	4	5	4
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	69	31	10	99	79	130
Dominican Rep	1	4	6	5	7	9
El Salvador	0	0	3	13	3	13
Guatemala	1	6	0	0	1	6
Haiti	0	0	0	0	0	0
Honduras	1	9	1	8	2	17
Jamaica	0	0	0	0	0	0
Panama	0	0	2	5	2	5
Trinidad	7	4	2	17	9	21
Oth N & C Am.	2	94	0	0	2	94
TOTAL	1692	12865	778	8862	2470	21726
SOUTH AMERICA						
Argentina	4	205	19	70	23	275
Bolivia	0	0	0	0	0	0
Chile	82	225	6	629	88	854
Colombia	50	84	5	29	55	113
Ecuador	73	65	5	73	78	138
Paraguay	0	0	0	0	0	0
Peru	4	351	1	3	5	354
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	884	2396	87	1575	971	3972
OCEANIA						
New Zealand	154	198	0	0	154	198
Oth Oceania	26	17	0	0	26	17
TOTAL	279	290	55	101	334	391

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	\$000	UNITS	\$000	UNITS	\$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	73	262	65	135	138	396
Iran	3	84	2	51	5	135
Iraq	0	0	0	0	0	0
Israel	105	45	22	603	127	649
Jordan	0	0	1	41	1	41
Kuwait	31	200	0	0	31	200
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	2	9	0	0	2	9
Philippines	5	148	11	28	16	177
Qatar	0	0	0	0	0	0
Saudi Arabia	50	382	51	438	101	820
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	8	168	18	6	26	174
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	1295	12902	596	15416	1891	28319
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	0	0	4	451	4	451
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	2	48	0	0	2	48
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	3	130	3	130
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	26	128	7	5	33	133
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	24	26	0	0	24	26
TOTAL	52	202	14	586	66	789

Note: Region totals include top countries detailed by product as well as countries listed above.

** West and East Germany are combined.

Cutting Section Notes:

Total for Metal Cutting and Metal Forming appears in Metal Forming Section.

Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.

n.e.c. - Not elsewhere classified.

* "NC Y-T-D Cutting Total" does not include code 8456300000.

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RELEASED: January 29, 1992

	TOTAL YTD		TOTAL MO.	
	UNITS	\$000	UNITS	\$000
8456301020 Traveling wire electro-discharge machines	676	52514	93	8163
301050 Electro-discharge machines, n.e.c., NC	211	17403	36	1809
301070 Electro-discharge machines, n.e.c., non-NC	280	3537	24	287
8457100015 Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	1630	133252	154	12855
100025 Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	112	17226	11	1372
100035 Horizontal machining centers, ATC	442	96410	36	7963
100045 Machining centers, n.e.c.	291	130801	16	1493
200010 Unit construction mach. (single station transfer), NC	31	7546	1	224
200090 Unit construction mach. (single station transfer), non-NC	7	1968	0	0
300010 Multi-station transfer machines, NC	32	64103	5	15724
300090 Multi-station transfer machines, non-NC	61	24525	10	2539
8458110010 Horizontal lathes, multiple spindle, NC	255	41182	23	2084
110030 Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1604	122116	148	10845
110050 Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	355	50543	33	4691
110090 Horiz. lathes, power rating over 37.3 kW (50 HP), NC	54	19583	2	1156
190030 Horizontal engine or toolroom lathes, non-NC	3111	28854	226	2286
190050 Automatic bar and/or chucking mach., single spindle, non-NC	310	7659	14	313
190070 Automatic bar and/or chucking mach., mult. spindle, non-NC	33	3646	0	0
190090 Horizontal lathes, n.e.c., non-NC	414	16375	11	197
911060 Vertical turret lathes, multiple spindle, NC	22	7244	1	183
911080 Vertical turret lathes, n.e.c., NC	43	12467	1	76
915050 Vertical lathes, excl. VTL's, multiple spindle, NC	14	2952	0	0
915070 Vertical lathes, excluding VTL's, n.e.c., NC	26	5330	3	1590
991050 Vertical turret lathes, non-NC	88	4415	0	0
995090 Vertical lathes, n.e.c., excl. VTL's, non-NC	437	9906	18	578
8459100000 Way-type unit head machines	7	1038	1	109
210080 Other drilling machines, NC	365	24785	24	895
290040 Drilling machines, multiple spindle, non-NC	20	2017	1	272
290050 Drilling machines, radial, non-NC	244	2459	50	457
290070 Drilling, upright, ex. sensitive, turret & deep hole, non-NC	42	411	0	0
290090 Drilling machines, n.e.c., non-NC	342	9370	18	275
310010 Boring-milling mach., horiz. spind., table, excl. planer, NC	16	6726	2	453
310040 Boring-milling mach., horiz. spindle, n.e.c., NC	67	12950	2	422
310070 Boring-milling machines, n.e.c., NC	21	4569	1	40
390040 Boring-milling mach., horiz. spindle, n.e.c., non-NC	4	271	0	0
390050 Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	79	4487	6	187
400040 Boring machines, vertical, NC	10	1326	0	0
400050 Boring machines, vertical, non-NC	40	779	0	0
400070 Boring machines, n.e.c., NC	25	13378	4	3708
400080 Boring machines, n.e.c., non-NC	345	6187	16	444
510080 Milling machines, knee type, NC	308	5654	28	252
590030 Milling machines, knee type, non-NC	1998	16445	105	743
610080 Milling machines, excluding knee type, n.e.c., NC	438	30065	20	1842
690050 Milling machines, profile, dup., or die sinking, non-NC	36	740	0	0
690070 Milling machines, bed type, non-NC	27	765	2	78
690090 Milling machines, n.e.c., non-NC	348	9551	15	418
700020 Threading or tapping machines, n.e.c., NC	215	11751	30	1297
700080 Threading or tapping machines, n.e.c., non-NC	168	5435	12	325
8460110080 Flat surface grinding machines, NC	104	11678	1	33
190010 Flat surface grinding mach., recip.-table type, non-NC	367	4971	40	284
190050 Flat surface grinding machines, n.e.c., non-NC	1076	12543	76	596
210080 Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	439	77329	36	8325
290010 Grinding mach., external cylindrical, (incl. univ.), non-NC	339	13255	41	1333
290030 Grinding machines, internal cylindrical, non-NC	129	5969	5	569
290050 Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	686	28449	50	3113
310080 Sharpening machines (tool & cutter grinding), NC	142	6605	6	519
390050 Sharpening machines (tool & cutter grinding), non-NC	518	7223	50	360
400060 Honing or lapping machines, NC	28	3342	2	179
400080 Honing or lapping machines, non-NC	204	14694	25	1822
900060 Grinding, honing, polishing, & lapping mach., n.e.c., NC	92	5284	4	42
900080 Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1053	27495	70	1669
8461100060 Planing machines, NC	0	0	0	0
100080 Planing machines, non-NC	8	46	0	0
200010 Shaping or slotting machines, NC	6	555	0	0
200090 Shaping or slotting machines, non-NC	50	3727	4	504
300060 Broaching machines, NC	5	2814	0	0
300080 Broaching machines, non-NC	11	3826	0	0
401020 Gear cutting for bevel gears	13	1070	10	4
401030 Gear hobbors	146	18853	9	1100
401040 Gear shapers	37	3917	2	33
401060 Gear cutting machines, n.e.c.	123	2298	4	2
405050 Gear grinding or finishing for bevel gears	4	473	0	0
405070 Gear grinding or finishing machines, n.e.c.	43	16601	1	92
500050 Sawing or cutting-off machines, NC	99	11002	11	538
500090 Sawing or cutting-off machines, non-NC	1292	28154	124	2030
9000000001 Metal cutting machine tools, n.e.c.	238	13998	9	1501
9800000001 Used or rebuilt machine tools	3493	45204	256	5372
9900000001 Machine tools valued at less than \$3,025	827729	77546	109322	7995
Cutting Total	854178	1501636	111361	126660
Y-T-D Cutting Total	8208	1015406		

Please see notes on last page
of the metal forming section.Y-T-D Cutting Total
NC Y-T-D Cutting Total

U.S. IMPORTS - Metal Cutting Machine Tools - November 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	8	1048
100035	0	0	0	0	0	0	0	0	1	118
100045	0	0	0	0	0	0	0	0	3	589
200010	0	0	0	0	0	0	0	0	1	224
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	3	701
8458110010	0	0	11	267	0	0	0	0	2	440
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	1	821
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	70
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	51	0	0	1	1261
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	2	23	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	13	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	1	17	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	308
310070	0	0	0	0	0	0	0	0	1	40
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	2	146
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	3	1812
400080	0	0	0	0	1	11	14	315	1	118
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	2	1090	0	0	3	450
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	4	1	118	1	69
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	2	15
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	133	0	0	0	0	14	2568
290010	0	0	0	0	21	107	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	215
290050	0	0	0	0	10	29	0	0	25	862
310080	0	0	0	0	0	0	0	0	1	39
390050	0	0	0	0	10	43	0	0	2	70
400060	0	0	0	0	0	0	0	0	2	179
400080	0	0	0	0	2	11	0	0	10	1515
900060	0	0	0	0	0	0	0	0	0	0
900080	2	13	0	0	3	32	0	0	8	531
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	3	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	6	617
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	1	92
500050	0	0	0	0	1	49	0	0	0	0
500090	0	0	0	0	20	298	4	100	48	463
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	50	1	0	0	66	63	0	0	48	2797
9900000001	0	0	0	0	285	131	58	98	572	441
Month Tot	52	14	12	400	428	1975	77	632	773	18615
Y-T-D Tot	125	1843	683	7887	5802	16581	2599	18482	7618	321767
NC YTD Tot	5	403	25	1900	41	4523	51	8917	554	209124

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - November 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456301020	0	0	58	4953	0	0	0	0	0	0
301050	0	0	22	1026	0	0	0	0	0	0
301070	0	0	2	44	0	0	2	19	0	0
8457100015	1	75	123	11240	2	81	13	708	0	0
100025	0	0	1	186	0	0	0	0	0	0
100035	0	0	33	7699	2	146	0	0	0	0
100045	0	0	1	403	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	220	4	15504	0	0	0	0	0	0
300090	0	0	1	503	0	0	0	0	0	0
8458110010	0	0	10	1378	0	0	0	0	0	0
110030	0	0	104	8629	8	476	0	0	0	0
110050	0	0	31	4464	1	103	0	0	0	0
110090	0	0	1	335	0	0	0	0	0	0
190030	0	0	0	0	1	32	18	230	38	381
190050	0	0	1	36	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	27	1	18	0	0	0	0	0	0
911060	0	0	1	183	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	76
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	1	278	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	6	376	0	0	1	34
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	24	895	0	0	0	0	0	0
290040	0	0	1	272	0	0	0	0	0	0
290050	0	0	3	85	0	0	0	0	1	92
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	44	0	0	0	0	7	58
310010	0	0	1	298	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	1	1897	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	1	35	19	103
590030	0	0	1	168	0	0	0	0	50	317
610080	0	0	0	0	0	0	1	40	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	2	78	0	0	0	0	0	0
690090	0	0	1	16	0	0	0	0	0	0
700020	0	0	23	1122	0	0	0	0	0	0
700080	1	266	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	20	228	0	0
190050	2	13	9	28	0	0	0	0	1	92
210080	0	0	16	4383	0	0	0	0	0	0
290010	0	0	5	241	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	576	1	320	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	8	25	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	6	242	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	59	30	761	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	6	1	457	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	10	4	0	0	0	0	0	0	0	0
401030	0	0	2	445	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	1	8	1	323	0	0	0	0	0	0
500090	4	29	24	884	0	0	0	0	0	0
9000000001	0	0	8	1482	0	0	0	0	0	0
9800000001	5	112	14	634	3	75	0	0	0	0
9900000001	1901	425	5232	746	1504	147	60	10	0	0
Month Tot	1931	3717	5809	70830	1527	1435	115	1270	118	1154
Y-T-D Tot	29756	46242	54320	722744	20273	17436	1045	12030	1673	15854
NC YTD Tot	104	24560	4915	617675	143	9732	152	7133	170	1389

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - November 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8456301020	0	0	14	2381	3	30	0	0	18	799
301050	0	0	9	565	0	0	0	0	5	218
301070	0	0	1	27	18	157	1	40	0	0
8457100015	0	0	0	0	1	56	6	256	8	438
100025	0	0	0	0	2	139	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	4	229	8	271
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	6	1335	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	3	177	0	0	11	706	22	857
110050	0	0	0	0	0	0	1	124	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	34	308	13	268	122	1067
190050	0	0	1	97	11	110	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	2	6	6	139	1	6
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	1	4	1	18	2	26	5	97
8459100000	0	0	0	0	0	0	1	109	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	18	87	0	0	27	179
290070	0	0	0	0	0	0	0	0	0	0
290090	2	21	0	0	1	12	3	104	3	19
310010	0	0	0	0	1	155	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	114
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	4	41	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	6	49	2	65	0	0
590030	0	0	1	5	28	115	7	37	18	101
610080	0	0	1	100	3	15	2	26	8	121
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	5	0	0	0	0	10	206
700020	0	0	0	0	7	175	0	0	0	0
700080	0	0	0	0	1	16	1	6	7	21
8460110080	0	0	0	0	0	0	1	33	0	0
190010	0	0	0	0	20	56	0	0	0	0
190050	0	0	0	0	39	396	1	26	24	41
210080	0	0	5	1241	0	0	0	0	0	0
290010	4	154	9	789	0	0	2	42	0	0
290030	4	354	0	0	0	0	0	0	0	0
290050	0	0	3	949	1	1	9	376	0	0
310080	0	0	2	193	0	0	0	0	3	287
390050	0	0	2	26	1	7	25	182	2	7
400060	0	0	0	0	0	0	0	0	0	0
400080	1	7	0	0	0	0	6	48	0	0
900060	0	0	0	0	0	0	0	0	4	42
900080	0	0	5	95	1	13	7	26	13	138
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	37
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	39
401040	0	0	0	0	0	0	0	0	2	33
401060	0	0	0	0	0	0	4	2	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	7	67	0	0	1	91
500090	2	45	0	0	22	212	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	1	19
9800000001	6	801	4	109	1	3	50	439	9	337
9900000001	25	34	141	58	83110	4384	57	40	16377	1481
Month Tot	44	1416	209	8157	83339	6588	226	3391	16701	7068
Y-T-D Tot	2241	16204	1310	73157	585854	97573	2778	68264	138101	65572
NC YTD Tot	13	6833	270	37410	770	26192	345	36428	650	23188

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 91

RELEASED: January 29, 1992

Metal Forming Machine Tools

	TOTAL YTD		TOTAL MO.	
	UNITS	\$000	UNITS	\$000
8454300010 Die casting machines	224	25472	16	1122
8462100030 Headers and upsetters, including cold headers	69	14234	3	611
100050 Forging or die stamping machines, and hammers, n.e.c.	614	40486	55	1874
210080 Bending, folding, straight. or flat. mach., incl presses, NC	439	32554	25	2090
290030 Press brakes, non-NC	194	6773	16	532
290040 Bending rolls, non-NC	58	1445	0	0
290050 Bending, folding, straight., or flat., n.e.c., non-NC	858	29525	90	4135
310080 Shearing machines, NC	22	3547	2	128
390050 Shearing machines, non-NC	309	12097	23	499
410080 Punching or notching mach., incl. comb. punch & shear, NC	182	27912	9	1239
490050 Punching or notching mach., incl. comb. punch & sh., non-NC	404	10336	35	2300
910060 Hydraulic presses, NC	25	8099	0	0
910090 Hydraulic presses, non-NC	1812	17753	27	568
990030 Presses, n.e.c., NC	3	1451	0	0
990035 Mechanical transfer presses, non-NC	12	62504	0	0
990045 Mechanical presses, n.e.c., non-NC	183	17123	26	1111
990060 Presses, n.e.c., non-NC	446	24648	42	3253
8463100080 Draw benches for bars, tubes, profiles, wire or the like	122	9798	6	371
200080 Thread rolling machines	66	1886	4	98
300080 Machines for working wire	1120	49756	298	3669
900080 Metal forming machine tools, n.e.c.	844	24090	59	849
9800000002 Used or rebuilt machine tools	2564	22893	62	689
9900000002 Machine tools valued at less than \$3,025	13294	5847	1525	858
Forming Total			2323	25998
Y-T-D Forming Total	23864	450228		
NC Y-T-D Forming Total	671	73562		
Cutting and Forming Totals:				
Monthly Total			113684	152658
Y-T-D Total	878042	1951864		
NC Y-T-D Total	8879	1088969		

Other Manufacturing Technology

	TOTAL YTD		TOTAL MO.	
	UNITS	\$000	UNITS	\$000
1000000000 Machine tool parts and accessories	0	509158	0	39088
2000000000 Parts for working rubber or plastics - heading 8477	0	296422	0	28324
2710003070 Quenching or cutting oils	0	277	0	11
8428900010 Industrial robots for lifting, handling, loading or unload	1456	30330	211	3005
8431390080 Parts industrial robots, handling and loading - heading 8428	0	84670	0	6494
8456101010 Laser, light or photon beam for working metal, NC	157	34657	27	5034
101020 Laser, light or photon beam for working metal, non-NC	99	10442	9	924
105000 Laser, light or photon beam for other materials	178	8469	8	1401
201010 Ultrasonic processes for working metal, NC	0	0	0	0
201050 Ultrasonic processes for working metal, non-NC	38	151	4	14
205000 Ultrasonic processes for working other materials	38	229	0	0
8477103000 Injection molding mach., for manufacturing shoes	171	1964	2	114
106010 Injection molding mach., for rubber or oth. thermosetting	742	82885	72	7370
106050 Injection molding mach., for thermoplastics	2066	188137	215	16782
200005 Extruders; rubber or other thermosetting mat., single screw	37	7239	3	549
200015 Extruders; rubber or thermosetting, other incl. multi. screw	138	17450	5	1924
200035 Extruders; thermoplastics, single screw, less than 6.4cm	79	2553	3	93
200045 Extruders; thermoplastics, single screw, 6.4cm or greater	91	11772	3	464
200055 Extruders; thermoplastics, multi. screw, less than 6.4cm	64	6872	7	413
200065 Extruders; thermoplastics, multi. screw, 6.4cm or larger	114	21341	5	1029
300000 Blow molding machines	233	48531	16	2787
400000 Vacuum-molding and other thermoforming machines	315	15680	39	327
510010 Machines for molding or retreading pneumatic tires	314	25343	18	2405
510090 Machines for molding or otherwise forming inner tubes	74	5650	6	181
590000 Machines for molding or otherwise forming n.e.c.	573	29416	61	1776
800000 Machines for working rubber or plastics n.e.c.	2096	139838	258	10529
8479899040 Industrial robots, n.e.c.	3539	127628	243	6587
908040 Industrial robot parts	0	29045	0	2320
8537100030 Numerical controls for controlling machine tools	8882	30664	1042	2153
9024100000 Machines and appliances for testing metals	0	10001	0	924
9031100000 Machines for balancing mechanical parts	0	8169	0	219
300000 Profile projectors	0	5072	0	294
9032810020 Industrial process control instr., hydraulic	126822	3099	19625	191
810060 Industrial process control instr., pneumatic	152300	5076	19313	775

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8166945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 91

Metal Forming

	Belgium		Brazil		Canada		France		Germany **	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	0	0	4	115	0	0	1	217
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	4	173	0	0	23	467
210080	0	0	0	0	3	182	0	0	5	790
290030	1	67	0	0	15	465	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	12	427	0	0	3	118
310080	0	0	0	0	0	0	0	0	0	0
390050	6	127	0	0	3	76	0	0	0	0
410080	0	0	0	0	0	0	0	0	2	594
490050	0	0	0	0	1	292	0	0	7	969
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	1	57	0	0	17	16
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	18	845	0	0	4	548
8463100080	0	0	0	0	0	0	0	0	6	371
200080	0	0	0	0	0	0	0	0	0	0
300080	2	249	0	0	4	265	0	0	16	1064
900080	0	0	0	0	4	24	18	102	8	54
9800000002	4	104	0	0	20	240	0	0	7	100
9900000002	0	0	0	0	39	42	4	6	10	9
Month Tot	13	548	0	0	128	3202	22	108	109	5317
Y-T-D Tot	185	8550	30	19760	1942	40170	244	2515	1387	82184
NC YTD Tot	1	561	0	0	33	4120	18	128	105	19757
C&F Month	65	562	12	400	556	5177	99	739	882	23932
C&F Y-T-D	310	10393	713	27647	7744	56751	2843	20997	9005	403951
C&F NC YTD	6	964	25	1900	74	8643	69	9045	659	228881

Other Manufacturing Technology

1000000000	0	232	0	124	0	3570	0	1000	0	9319
2000000000	0	102	0	27	0	5409	0	1424	0	6777
2710003070	0	0	0	0	0	11	0	0	0	0
8428900010	0	0	0	0	16	130	20	688	1	60
8431390080	0	22	0	2	0	1534	0	57	0	1763
8456101010	0	0	0	0	0	0	0	0	8	1102
101020	0	0	0	0	0	0	0	0	8	530
105000	0	0	0	0	1	1054	0	0	2	16
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	1	101
106010	0	0	0	0	9	1941	1	133	2	1292
106050	0	0	0	0	33	4229	1	8	42	1570
200005	0	0	0	0	0	0	0	0	2	34
200015	0	0	0	0	0	0	0	0	4	1771
200035	0	0	0	0	0	0	0	0	1	48
200045	0	0	0	0	0	0	0	0	3	464
200055	0	0	0	0	0	0	0	0	5	245
200065	0	0	0	0	1	31	0	0	3	903
300000	0	0	0	0	1	13	4	1714	2	334
400000	0	0	0	0	1	85	0	0	3	23
510010	0	0	0	0	2	85	0	0	1	2040
510090	0	0	0	0	2	71	0	0	0	0
590000	0	0	0	0	27	286	10	140	7	1041
800000	6	359	0	0	32	799	1	4568	33	2082
8479899040	0	0	0	0	3	127	0	0	1	309
908040	0	4	0	0	0	45	0	1	0	1004
8537100030	0	0	0	0	15	33	0	0	0	0
9024100000	0	0	0	0	0	448	0	53	0	43
9031100000	0	0	0	0	0	117	0	0	0	29
300000	0	0	0	0	0	0	0	0	0	68
9032810020	0	0	0	0	1	3	0	0	0	0
810060	0	0	0	0	1	2	0	0	15	106

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	4	615	0	0	0	0	0	0
8462100030	1	123	2	487	0	0	0	0	0	0
100050	4	259	16	516	0	0	0	0	0	0
210080	0	0	14	636	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	4	21	39	2229	0	0	0	0	0	0
310080	0	0	2	128	0	0	0	0	0	0
390050	2	10	3	137	0	0	0	0	0	0
410080	3	268	3	354	0	0	0	0	0	0
490050	0	0	5	632	0	0	0	0	12	150
910060	0	0	0	0	0	0	0	0	0	0
910090	1	3	6	483	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	20	975	0	0	0	0	0	0
990060	0	0	10	1720	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	1	19	0	0	0	0	2	68
300080	269	1677	6	360	0	0	0	0	0	0
900080	1	6	2	502	0	0	0	0	0	0
9800000002	1	3	1	4	2	5	0	0	0	0
9900000002	125	96	439	391	0	0	0	0	0	0
Month Tot	411	2467	573	10188	2	5	0	0	14	218
Y-T-D Tot	1796	31942	4191	188170	38	542	5	418	776	3085
NC YTD Tot	41	3359	381	31341	0	0	1	32	0	0
C&F Month	2342	6184	6382	81018	1529	1440	115	1270	132	1372
C&F Y-T-D	31552	78184	58511	910914	20311	17978	1050	12448	2449	18940
C&F NC YTD	145	27919	5296	649016	143	9732	153	7165	170	1389

Other Manufacturing Technology

1000000000	0	976	0	10964	0	98	0	163	0	92
2000000000	0	657	0	10765	0	108	0	34	0	24
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	1	14	151	1190	0	0	0	0	0	0
8431390080	0	187	0	397	0	33	0	5	0	2
8456101010	0	0	19	3932	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	36	2689	0	0	0	0	4	36
106050	4	658	70	8078	12	341	0	0	1	111
200005	1	515	0	0	0	0	0	0	0	0
200015	0	0	1	153	0	0	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	0	0	2	167	0	0	0	0	0	0
200065	0	0	0	0	0	0	0	0	0	0
300000	0	0	6	435	0	0	0	0	0	0
400000	0	0	12	108	0	0	0	0	0	0
510010	0	0	14	270	0	0	0	0	0	0
510090	0	0	2	98	1	10	0	0	0	0
590000	3	4	3	294	0	0	0	0	0	0
800000	1	13	124	1269	1	12	0	0	0	0
8479899040	2	4	159	5512	0	0	0	0	0	0
908040	0	57	0	761	0	0	0	0	0	0
8537100030	2	11	729	1978	0	0	0	0	0	0
9024100000	0	119	0	39	0	0	0	0	0	0
9031100000	0	16	0	15	0	18	0	0	0	0
300000	0	0	0	44	0	0	0	0	0	0
9032810020	0	0	0	0	2710	12	0	0	0	0
810060	635	74	4	384	7500	24	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	\$000	Units	\$000	Units	\$000	Units	\$000	Units	\$000
8454300010	0	0	6	87	0	0	1	87	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	208	4	163	3	88	0	0
210080	0	0	0	0	0	0	3	482	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	12	517	5	659	1	8	1	8	13	148
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	4	43	5	105
410080	0	0	1	23	0	0	0	0	0	0
490050	0	0	0	0	1	5	3	13	6	238
910060	0	0	0	0	0	0	0	0	0	0
910090	1	6	0	0	1	2	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	1	8	0	0	0	0	5	129
990060	1	7	0	0	5	101	2	17	2	15
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	1	11	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	54
900080	0	0	23	147	1	4	2	10	0	0
9800000002	3	26	0	0	0	0	4	18	20	190
9900000002	0	0	21	7	463	179	73	20	351	110
Month Tot	17	557	58	1139	477	473	96	787	403	988
Y-T-D Tot	218	9835	986	18864	6449	6612	1945	15257	3672	22323
NC YTD Tot	16	2184	14	1716	7	116	18	2893	36	7355
C&F Month	61	1973	267	9297	83816	7060	322	4178	17104	8056
C&F Y-T-D	2459	26039	2296	92020	592303	104185	4723	83521	141773	87895
C&F NC YTD	29	9016	284	39126	777	26308	363	39321	686	30543

Other Manufacturing Technology

1000000000	0	711	0	3035	0	1987	0	3590	0	3227
2000000000	0	13	0	242	0	181	0	919	0	1641
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	16	829	0	0	0	0	1	3	5	92
8431390080	0	130	0	692	0	52	0	410	0	1209
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	1	393	0	0	0	0	0	0
105000	0	0	0	0	0	0	5	332	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	4	14
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	1	13	0	0
106010	0	0	0	0	4	146	4	36	12	1097
106050	0	0	33	1237	10	302	3	53	6	195
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200035	0	0	0	0	0	0	2	45	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	0	0	1	95	0	0
300000	0	0	0	0	0	0	2	164	1	128
400000	0	0	0	0	0	0	23	111	0	0
510010	0	0	0	0	0	0	1	10	0	0
510090	0	0	0	0	0	0	0	0	1	2
590000	0	0	0	0	0	0	10	8	1	5
800000	0	0	1	6	22	481	19	492	18	447
8479899040	5	212	3	97	0	0	7	78	63	248
908040	0	105	0	72	0	0	0	186	0	84
8537100030	2	4	0	0	0	0	9	32	285	96
9024100000	0	0	0	0	0	1	0	158	0	62
9031100000	0	0	0	9	0	0	0	24	0	0
300000	0	0	0	0	0	0	0	182	0	0
9032810020	0	0	332	15	0	0	751	7	15831	154
810060	565	130	0	0	2500	4	0	0	8093	52

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Cutting and Metal Forming Machine Tool Totals
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	\$000	UNITS	\$000	UNITS	\$000
EUROPE						
Austria	132	1045	2	56	134	1101
Bulgaria	0	0	0	0	0	0
Czechoslovakia	27	360	3	85	30	445
Denmark	43	153	21	103	64	256
Finland	15	34	8	47	23	82
Hungary	1	5	1	71	2	75
Ireland	35	43	0	0	35	43
Luxembourg	0	0	0	0	0	0
Netherlands	3	55	10	308	13	363
Norway	1	207	0	0	1	207
Poland	21	398	0	0	21	398
Portugal	13	87	3	50	16	137
Romania	0	0	0	0	0	0
USSR	0	0	1	12	1	12
Yugoslavia	3	196	0	0	3	196
Oth Europe	0	0	0	0	0	0
TOTAL	3724	39678	789	11874	4513	51553
	=====	=====	=====	=====	=====	=====
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	163	49	4	98	167	147
Oth N & C Am.	0	0	0	0	0	0
TOTAL	591	2024	132	3300	723	5324
	=====	=====	=====	=====	=====	=====
SOUTH AMERICA						
Argentina	1	49	0	0	1	49
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	13	449	0	0	13	449
	=====	=====	=====	=====	=====	=====
OCEANIA						
Australia	5	324	0	0	5	324
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	5	324	0	0	5	324
	=====	=====	=====	=====	=====	=====

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	\$000	UNITS	\$000	UNITS	\$000
ASIA						
China	16145	2118	119	40	16264	2158
Hong Kong	9	76	1	1	10	78
India	9	50	0	0	9	50
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	7	339	5	61	12	400
Malaysia	37	25	0	0	37	25
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	31	1455	0	0	31	1455
Oth Asia	0	0	0	0	0	0
TOTAL	107028	84186	1177	10768	108205	94954
	=====	=====	=====	=====	=====	=====
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	225	55	225	55
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	225	55	225	55
	=====	=====	=====	=====	=====	=====

Note: Region totals include top countries detailed by product as well as countries listed above.

** West and East Germany are combined.

Cutting Section Notes:

Total for Metal Cutting and Metal Forming appears in Metal Forming Section.

Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.

n.e.c. - Not elsewhere classified.